



RLH Industries, Inc.

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PRODUCT
DATA SHEET

DS-150 2025-0529

8+2 Combo SFP PoE+ Switch

ETH-82CP-1

Industrial PoE+ Gigabit SFP Switch

RLH industrial switches are engineered to provide reliable network performance in harsh environments. The 8+2 SFP PoE+ switch provides both copper and fiber Ethernet access, along with PoE+ powering capabilities. It is environmentally hardened to operate in a wide temperature range, which is the standard for RLH equipment.

The PoE+ ports provide up to 30 Watts of power to end devices following the IEEE 802.3af/at standard. The unique Flex Power feature allows the device to maintain a consistent PoE+ voltage to end devices regardless of the DC powering voltage provided.

Our industrial switches robust features and construction meet the demands of a variety of applications, and are an ideal solution for a wide range of utility and automation environments.

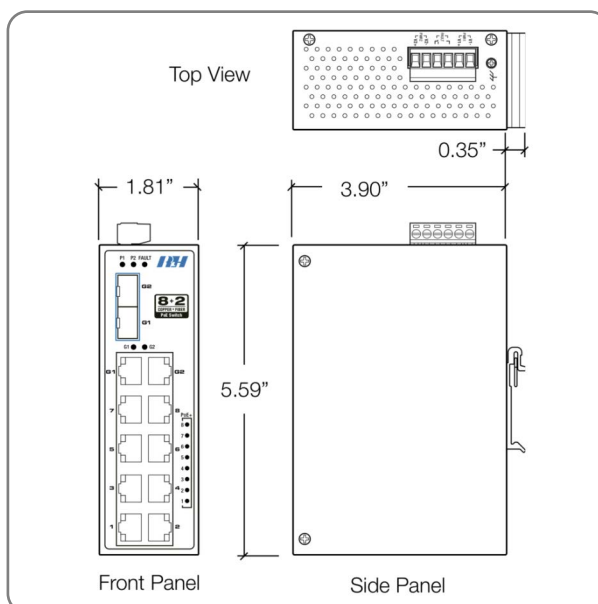


8+2 Combo SFP PoE+ Switch

Features

- Wide operating temperature range of -40°F to +167°F (-40°C to +75°C)
- Flex power - Constant 48VDC PoE+ power (at low input voltages)
- 2 Combo Ports - Either Gigabit RJ-45 or SFP Ports
- 8 PoE+ ports with up to 30 watts per port
- IEEE 802.3af/at Power over Ethernet
- PoE Mode A (End Span)
- Auto MDI/MDI-X
- Rugged case Rated to IP30
- 12~36VDC redundant power inputs with built-in alarm
- 2kV surge protection
- DIN rail & wall mountable
- UL Listed

Dimensions





Specifications

Switch Characteristics

Data Process: Store and Forward, CSMA/C

Standards:	IEEE 802.3 10BaseT Ethernet	IEEE 802.3z Gigabit Fiber
	IEEE 802.3u 100BaseTX Fast Ethernet	IEEE 802.3af Power over Ethernet
	IEEE 802.3ab 1000BaseT Gigabit Ethernet	IEEE 802.3at Power over Ethernet Plus (PoE+)

Transfer Rates: 14,880pps - Ethernet port
148,800pps - Fast Ethernet port,
1,488,000pps - Gigabit Ethernet port

Transmission Distance: Up to 100 Meters over twisted pair

Transmission Speed: Up to 1000Mbps

MAC Address: 8k table size

Ethernet Interface: Supports Jumbo Frames, Auto MDI/MDI-X, Auto-Negotiation

Ethernet Ports: (8) 10/100 Mbps PoE+
(2) Combo Ports — either (2) 10/100/1000 Mbps or (2) Dual Rate SFP Slots

PoE Power: 30 Watts (Mode A / End Span)

Flex Power: Constant 48VDC PoE+ power throughout input voltage range

PoE Pin Assignment: Positive (VCC+) – Pins 1, 2; Negative (VCC-) – Pins 3, 6; Data – Pins 1, 2, 3, 6

LED Status Indicators: Power 1 (P1), Power 2 (P2), Fault
Ethernet Ports (Link and Activity), PoE+ (On and Off)

Power Protection: Over Current, Power Reversal, Polarity Protection

Power Input: 12~36VDC redundant power inputs (6 position pluggable terminal block)

Max Power Consumption: 145W @ 12V, 200W @ 24VDC (assuming full PoE load)

Fault Output: 1 Relay output rated for 24VDC @ 1 Amp

Operating Temperature: -40°F to 167°F (-40°C to 75°C)

Storage Temperature: -40°F to 185°F (-40°C to 85°C)

Operating Humidity: 5% to 95% (Non-Condensing)

Construction: Powder coated IP30 steel housing

Case Dimensions: 1.81" (W) x 3.90" (D) x 5.59" (H), (46mm x 99mm x 142mm) *Not including connectors or DIN bracket



Specifications (cont.)

Switch Characteristics	
Installation:	Standard DIN rail (TS-35) or wall mount *Wall mount brackets included
EMI:	FCC Class A, CE EN61000-4-2/3/4/5/6/8/11/12, CE EN61000-6-2, CE EN61000-6-4
Stability Testing:	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
Safety:	CE, FCC Class A, UL 61010-1, UL 61010-2-201, File Number: E480850, UL Class 1/Div.2
Compliance:	NDAA, TAA, NEMA TS2 (ITS), RoHS and REACH compliant
MTBF:	545,971 hrs Telcordia SR-332, Issue 3, GB, 25°C
Warranty:	5 Years Visit www.fiberopticlink.com for warranty details

Ordering Information

Description	Part Number
8 Gigabit RJ-45 Ports, 2 Dual Rate SFP Ports, 30 Watt PoE	ETH-82CP-1

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